



# United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS PO. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

## NOTICE OF ALLOWANCE AND FEE(S) DUE

7590

06/13/2003

Jacobson & Johnson Suite 285 One West Water St. St. Paul, MN 55107-2080 EXAMINER

ALI, HYDER

ART UNIT CLASS-SUBCLASS

3747

123-04600R

DATE MAILED: 06/13/2003

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/050,679	01/15/2002	Edward Wechner	5610	5100

TITLE OF INVENTION: FREE-PISTON ENGINES

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$650	\$300	\$950	09/15/2003

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

- B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.
- ☐ Applicant claims SMALL ENTITY status. See 37 CFR 1.27.
- II. PART B FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.
- III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Box ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

## PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents Alexandria, Virginia 22313-1450

(703)746-4000 <u>Fax</u>

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 4 should be completed where

appropriate. All further corrindicated unless corrected b maintenance fee notifications	elow or directed otherwis	Patent, advance orders se in Block 1, by (a) spe	and notification ecifying a new co	of maintenance fee rrespondence addre	s will be mailed to the current ess; and/or (b) indicating a sepa	correspondence address as arate "FEE ADDRESS" for	
CURRENT CORRESPONDENCE	ADDRESS (Note: Legibly mark-	up with any corrections or use E	Block I)	Note: A certificat	e of mailing can only be used fo al. This certificate cannot	r domestic mailings of the	
Jacobson & Johns				accompanying pa	spers. Each additional paper, s nust have its own certificate of n	uch as an assignment or	
Suite 285	ion						
One West Water St.				I hereby certify	Certificate of Mailing or Trans that this Fee(s) Transmittal is	being deposited with the	
St. Paul, MN 55107	<b>'-2080</b>			I hereby certify that this Fee(s) Transmittal is be. United States Postal Service with sufficient postage is envelope addressed to the Box Issue Fee address ab transmitted to the USPTO, on the date indicated belo			
				transmitted to the	USP10, on the date indicated b	(Depositor's name)	
				-		(Signature)	
						(Date)	
APPLICATION NO.	FILING DATE	FIRS	T NAMED INVEN	FOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/050,679	01/15/2002	<u>-</u>	Edward Wechner		5610	5100	
TITLE OF INVENTION: FR	REE-PISTON ENGINES						
		-					
APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLI	CATION FEE	TOTAL FEE(S) DUE	DATE DUE	
nonprovisional	YES	\$650		\$300	\$950	09/15/2003	
EXAMIN	TER	ART UNIT	CLASS-SUBCL	ASS			
ALI, HY	DER	3747	123-04600	R		•	
1. Change of correspondent CFR 1.363).	ce address or indication of	"Fee Address" (37	2. For printing	on the patent from	page, list (1)		
•	nce address (or Change of	Correspondence	the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2				
Address form PTO/SB/12	2) attached.	-					
☐ "Fee Address" indication PTO/SB/47; Rev 03-02 on Number is required.	on (or "Fee Address" Indic r more recent) attached. U	ation form se of a Customer	registered patent attorneys or agents. If no name is listed, no name will be printed.				
3. ASSIGNEE NAME AND	RESIDENCE DATA TO	BE PRINTED ON THE	PATENT (print o	r type)			
PLEASE NOTE: Unless ar	assignee is identified be	low, no assignee data wi	ill appear on the p	atent. Inclusion of	assignee data is only appropriat DT a substitute for filing an assig	e when an assignment has	
(A) NAME OF ASSIGNEE	E course of the			n of this form is NC $'$ and STATE OR C		nment.	
					•		
Please check the appropriate  4a. The following fee(s) are 6				☐ individual	corporation or other private g	roup entity    government	
	enciosea:		ment of Fee(s):	of the fee(s) is enc	losed		
☐ Issue Fee☐ Publication Fee				I. Form PTO-2038			
☐ Advance Order - # of Co	opies	☐ The	e Commissioner is hereby authorized by charge the required fee(s), or credit any overnayment, to				
		<del></del>	t Account Numbe		_(enclose an extra copy of this sly paid issue fee to the applications.		
Commissioner for ratelles is	requested to appry the issu	ie ree and rubheation re	te (ii aliy) or to re	-appiy any previou	sty paid issue fee to the applicati	on identified above.	
(Authorized Signature)		(Date)				· · · · · · · · · · · · · · · · · · ·	
NOTE TO		<del></del>					
NOTE; The Issue Fee and other than the applicant; a interest as shown by the rec	registered attorney or a cords of the United States	gent; or the assignee of Patent and Trademark Of	r other party in fice.				
This collection of informat obtain or retain a benefit tapplication. Confidentiality	tion is required by 37 CF	R 1.311. The information	n is required to				
application. Confidentiality estimated to take 12 minute	is governed by 35 U.S.C.	122 and 37 CFR 1.14. T	his collection is				
estimated to take 12 minute completed application form case. Any comments on	n to the USPTO. Time with amount of time you	vill vary depending upon	n the individual				
case. Any comments on suggestions for reducing the Patent and Trademark C 22313-1450. DO NOT SI	nis burden, should be sen	t to the Chief Information	on Officer, U.S.				
22313-1450. DO NOT SI SEND TO: Commissioner f	END FEES OR COMPL for Patents, Alexandria, V	ETED FORMS TO TH rginia 22313-1450.	iis address.				
Under the Paperwork Red collection of information un	Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.						



# UNITED STATES PATENT AND TRADEMARK OFFICE

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10/050,679	01/15/2002	Edward Wechner	5610	5100	
7.	590 06/13/2003		EXAMIN	ER	
Jacobson & Johnson Suite 285			ALI, HYDER		
One West Water S			ART UNIT	PAPER NUMBER	
St. Paul, MN 5510	7-2080		3747	7	
			DATE MAILED: 06/13/2003	•	

# Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (application filed on or after May 29, 2000)

The patent term adjustment to date is 17 days. If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the term adjustment will be 17 days.

If a continued prosecution application (CPA) was filed in the above-identified application, the filing date that determines patent term adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system. (http://pair.uspto.gov)

Any questions regarding the patent term extension or adjustment determination should be directed to the Office of Patent Legal Administration at (703)305-1383.



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7.	590 06/13/2003		EXAMIN	ER
Jacobson & John	son	ALI, HYDER		
Suite 285		_		
One West Water S	t.	L	ART UNIT	PAPER NUMBER
St. Paul, MN 5510 UNITED STATES			3747	
UNITED STATES	1	D	DATE MAILED: 06/13/2003	

# Notice of Fee Increase on January 1, 2003

If a reply to a "Notice of Allowance and Fee(s) Due" is filed in the Office on or after January 1, 2003, then the amount due will be higher than that set forth in the "Notice of Allowance and Fee(s) Due" since there will be an increase in fees effective on January 1, 2003. See Revision of Patent and Trademark Fees for Fiscal Year 2003; Final Rule, 67 Fed. Reg. 70847, 70849 (November 27, 2002).

The current fee schedule is accessible from: http://www.uspto.gov/main/howtofees.htm.

If the issue fee paid is the amount shown on the "Notice of Allowance and Fee(s) Due," but not the correct amount in view of the fee increase, a "Notice to Pay Balance of Issue Fee" will be mailed to applicant. In order to avoid processing delays associated with mailing of a "Notice to Pay Balance of Issue Fee," if the response to the Notice of Allowance and Fee(s) due form is to be filed on or after January 1, 2003 (or mailed with a certificate of mailing on or after January 1, 2003), the issue fee paid should be the fee that is required at the time the fee is paid. If the issue fee was previously paid, and the response to the "Notice of Allowance and Fee(s) Due" includes a request to apply a previously-paid issue fee to the issue fee now due, then the difference between the issue fee amount at the time the response is filed and the previously paid issue fee should be paid. See Manual of Patent Examining Procedure, Section 1308.01 (Eighth Edition, August 2001).

Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

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	Application No.	Applicant(s)	
ALA CAR LIPA	10/050,679	WECHNER, EDWA	RD
Notice of Allowability	Examiner	Art Unit	
	HYDER ALI	3747	
The MAILING DATE of this communication at All claims being allowable, PROSECUTION ON THE MERITS herewith (or previously mailed), a Notice of Allowance (PTOL NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATEN of the Office or upon petition by the applicant. See 37 CFR 1	S IS (OR REMAINS) CLC -85) or other appropriate <b>T RIGHTS</b> . This applica .313 and MPEP 1308.	OSED in this application. If not include communication will be mailed in due	ed course. <b>THIS</b>
2. The allowed claim(s) is/are <u>1-10</u> .			
3. The drawings filed on 27 May 2003 are accepted by the	e Examiner.		
<ol> <li>Acknowledgment is made of a claim for foreign priority</li> <li>a) ☐ All b) ☐ Some* c) ☒ None of the:</li> </ol>	under 35 U.S.C. § 119(a	a)-(d) or (f).	
<ol> <li>Certified copies of the priority documents I</li> </ol>	have been received.		
<ol><li>Certified copies of the priority documents I</li></ol>	have been received in Ap	plication No	
<ol> <li>Copies of the certified copies of the priority International Bureau (PCT Rule 17.2(a)</li> </ol>		eceived in this national stage applica	tion from the
* Certified copies not received:			
5. Acknowledgment is made of a claim for domestic priori	-		
(a) The translation of the foreign language provision	- ·		
6. Acknowledgment is made of a claim for domestic priori	ity under 35 U.S.C. §§ 12	:0 and/or 121.	
Applicant has THREE MONTHS FROM THE "MAILING DATE below. Failure to timely comply will result in ABANDONMEN"			
7. A SUBSTITUTE OATH OR DECLARATION must be s INFORMAL PATENT APPLICATION (PTO-152) which gives			NOTICE OF ·
<ul> <li>8.  CORRECTED DRAWINGS must be submitted.</li> <li>(a) including changes required by the Notice of Drafts</li> <li>1) hereto or 2) to Paper No.</li> <li>(b) including changes required by the proposed draw</li> </ul>	ring correction filed	_, which has been approved by the I	
(c) ☐ including changes required by the attached Exam	niner's Amendment / Con	ment or in the Office action of Paper	No
Identifying indicia such as the application number (see 37 C each sheet.	FR 1.84(c)) should be writ	ten on the drawings in the front (not the	e back) of
9. DEPOSIT OF and/or INFORMATION about the d attached Examiner's comment regarding REQUIREMENT FO			Note the
Attachment(s)			
<ul> <li>1 Notice of References Cited (PTO-892)</li> <li>3 Notice of Draftperson's Patent Drawing Review (PTO-94</li> <li>5 Information Disclosure Statements (PTO-1449), Paper No.</li> <li>7 Examiner's Comment Regarding Requirement for Depose of Biological Material</li> </ul>	8) 4□ I lo 6□ E	Notice of Informal Patent Application ( nterview Summary (PTO-413), Paper Examiner's Amendment/Comment Examiner's Statement of Reasons for Other	r No
Hyder M.		Henry C. Yuen Supervisory Patent Examiner	

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